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(54) **ADJUSTABLE PEDAL-PARALLEL SCREW AND ROD**

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(56) **References Cited**

U.S. PATENT DOCUMENTS

3,288,239	* 11/1966	Ristau	74/513
3,359,821	12/1967	Beardsley et al.	74/471
3,643,524	* 2/1972	Herring	74/513
3,643,525	* 2/1972	Gibas	74/513
4,312,246	* 1/1982	Barresi	74/512
4,870,871	* 10/1989	Ivan	74/513
4,875,385	* 10/1989	Sitrin	74/513
4,903,936	2/1990	Kajiwaru	251/14
4,989,474	2/1991	Cicotte et al.	74/512
5,078,024	1/1992	Cicotte et al.	74/512
5,460,061	10/1995	Redding et al.	74/512

5,697,260	12/1997	Rixon et al.	74/512
5,722,302	3/1998	Rixon et al.	74/514
5,819,593	10/1998	Rixon et al.	74/514
5,996,438	* 12/1999	Elton	74/512
6,151,985	* 11/2000	Garber et al.	74/512

FOREIGN PATENT DOCUMENTS

920784	* 3/1963	(GB)	74/512
59-67145 A	* 4/1984	(JP)	74/512
61-11836 A	* 1/1986	(JP)	74/512
2-116911 A	* 5/1990	(JP)	74/512

* cited by examiner

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(57) **ABSTRACT**

Various adjustable pedal assemblies (10, 110 and 210) include a pedal support (16, 116 or 216) slidably supported on a guide rod (12) with a pedal lever (18, 118 or 218) mounted on the support (16, 116 or 216) along the guide rod (12). The adjustable pedal assemblies (10, 110 and 210) are characterized by the screw (22) being external to and parallel to the guide rod (12). In the embodiment of FIGS. 1 and 2, the pedal lever (18 or 118) is pivotally attached to the support (16 or 116) whereas in the embodiment of FIG. 3, the pedal lever (218) and the support (216) are defined by an integral member and the bracket (214) includes a connection (34) for rotatably supporting the bracket (214) on a vehicle.

11 Claims, 3 Drawing Sheets

